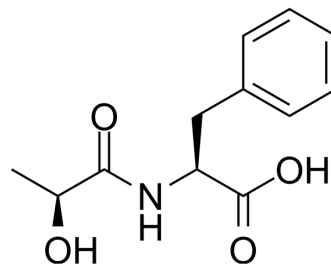


N-Lactoyl-Phenylalanine

| | | | |
|--------------------|-------------------------------------------------|-------|----------|
| Cat. No.: | HY-150012 | | |
| CAS No.: | 183241-73-8 | | |
| Molecular Formula: | C ₁₂ H ₁₅ NO ₄ | | |
| Molecular Weight: | 237.25 | | |
| Target: | Endogenous Metabolite | | |
| Pathway: | Metabolic Enzyme/Protease | | |
| Storage: | Powder | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



SOLVENT & SOLUBILITY

| | | | | | |
|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|--------------------------|--------------|------------|------------|
| In Vitro | H ₂ O : 20.83 mg/mL (87.80 mM; ultrasonic and warming and heat to 80°C) | | | | |
| | | Solvent Concentration | Mass 1 mg | 5 mg | 10 mg |
| | Preparing Stock Solutions | 1 mM | 4.2150 mL | 21.0748 mL | 42.1496 mL |
| | | 5 mM | 0.8430 mL | 4.2150 mL | 8.4299 mL |
| 10 mM | | 0.4215 mL | 2.1075 mL | 4.2150 mL | |
| Please refer to the solubility information to select the appropriate solvent. | | | | | |
| In Vivo | 1. Add each solvent one by one: PBS Solubility: 10 mg/mL (42.15 mM); Clear solution; Need ultrasonic | | | | |

BIOLOGICAL ACTIVITY

| | |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | N-Lactoyl-Phenylalanine is a blood-borne signalling metabolite and can be used for obesity research. N-Lactoyl-Phenylalanine is exercise-inducible ^[1] . |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|

REFERENCES

[1]. Li VL, et al. An exercise-inducible metabolite that suppresses feeding and obesity. *Nature*. 2022 Jun;606(7915):785-790.

Caution: Product has not been fully validated for medical applications. For research use only.

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